

1. **DOWNLOAD AT LAKE RIM GIS WEBSITE <http://adamite.igs.indiana.edu/arcims/lrim/start.html>**

**La Porte County Trail Creek West  
Branch Study  
Infrastructure**

**Source**

<b>Cities and towns</b>	HAZUS, 1997, Federal Emergency Management Agency and National Institute of Building Sciences
<b>Counties</b>	U.S. Census Bureau, TIGER/Line® files, 1995, source scale 1:100,000
<b>1:24,000 Quads</b>	Dataset generated by Alex Zlotin, Indiana Geological Survey
<b>Township-range</b>	Digitized by Indiana Geological Survey from USGS Base Map of Indiana (1978), source scale 1:500,000
<b>Section</b>	U.S. Geological Survey, Digital Line Graph data, 1986, source scale 1:100,000
<b>Highways</b>	U.S. Census Bureau, TIGER/Line® files, 1995, source scale 1:100,000
<b>Minor roads</b>	U.S. Census Bureau, TIGER/Line® files, 1995, source scale 1:100,000
<b>Railroads</b>	U.S. Census Bureau, TIGER/Line® files, 1995, source scale 1:100,000
<b>Pipelines</b>	HAZUS, 1997, Federal Emergency Management Agency and National Institute of Building Sciences U.S. Geological Survey, Land Use and Land Cover Digital Data from 1:250,000- and 1:100,000-Scale Maps, Data Users Guide 4, 1990, source scale 1:250,000
<b>Land use</b>	U.S. Geological Survey, Digital Line Graph data, 1986, source scale 1:100,000
<b>Public lands</b>	HAZUS, 1997, Federal Emergency Management Agency and National Institute of Building Sciences
<b>Power plants</b>	HAZUS, 1997, Federal Emergency Management Agency and National Institute of Building Sciences
<b>Ports</b>	HAZUS, 1997, Federal Emergency Management Agency and National Institute of Building Sciences
<b>Refineries</b>	HAZUS, 1997, Federal Emergency Management Agency and National Institute of Building Sciences
<b>Schools</b>	HAZUS, 1997, Federal Emergency Management Agency and National Institute of Building Sciences
<b>Trails</b>	Obtained from Mike Martin, Indiana Department of Natural Resources <a href="#">Detailed information</a>
<b>Recreational facilities</b>	Obtained from Mike Martin, Indiana Department of Natural Resources <a href="#">Detailed information</a>
<b>Nature preserves</b>	Obtained from Ronald Hellmich, Division of Nature Preserves of Indiana Department of Natural Resources. Dataset digitized from 1:24,000 quad maps.
<b>Historical districts</b>	Dataset created using Interim Reports of the Indiana Historic Sites and Structures Inventory for Lake, Porter and La Porte counties, published by Historic Landmarks Foundation of Indiana in 1989 (La Porte county), 1991 (Porter county), and 1996 (Lake county). Dataset was digitized on-screen, TIGER/Line® road dataset was used to locate districts.
<b>Historical bridges</b>	Obtained from Frank Hurdis and Joseph Saldibar, Division of Historic Preservation and Archaeology of Indiana Department of Natural Resources. Dataset generated from point locations.
<b>Index of 2-ft contour maps</b>	Obtained from Indiana Department of Natural Resources.
<b>Bird observations</b>	Kenneth J. Brock, PH.D, Professor of Geology, Indiana University-Northwest, Marram Hall 247, 3400 Broadway, Gary Indiana 46408-1197, (219) 980-6736
<b>GPS locations of coastal features</b>	The GPS dataset was created at the request of Stephen Davis, Lake Michigan Specialist, of the Indiana Department of Natural Resources. Data was collected and processed by Curtis Thomas of the Indiana Geological Survey, Center for Geospatial Data Analysis. GPS data collected represents endpoints of costal and man-made structures along the Lake Michigan Shoreline. <a href="#">Feature codes</a>

## 1. CONTINUED

### ***Geology***

#### **Shaded relief**

U.S. Geological Survey, Digital Elevation Models, scale 1:250,000

#### **Elevation contours**

U.S. Geological Survey, Digital Line Graph data, 1986, source scale 1:100,000. Dataset not complete.

#### **Bedrock geology**

Gray et al., 1987, Bedrock Geologic Map of Indiana, Miscellaneous Map 48, Indiana Geological Survey, source scale = 1:500,000

#### **Geologic terrains**

Bleuer, N.K., Brown, S.E., and Thompson, T.A., 1996, Geologic Terrain Map of the Southern Lake Michigan Rim, Indiana, Open-File Map 96-12, Indiana Geological Survey, source scale = 1:100,000

#### **Hydrogeologic settings**

Fleming et al., Atlas of Hydrogeologic Terrains and Settings of Indiana, 1995, Open-File Report 95-7, Indiana Geological Survey, source scale = 1:100,000

#### **Gamma ray logs**

accuracy)

#### **Water well logs**

Bleuer, N.K., Brown, S.E., and Thompson, T.A., 1996, Geologic Terrain Map of the Southern Lake Michigan Rim, Indiana, Open-File Map 96-12, Part 3 (CDROM), Indiana Geological Survey, source scale is various (locations were obtained from locational information on water-well logs and from GPS measurements)

#### **Soil associations**

1:250,000

### ***Hydrology***

#### **Surface water**

U.S. Census Bureau, TIGER/Line® files, 1995, source scale 1:100,000

#### **Lakes**

U.S. Census Bureau, TIGER/Line® files, 1995, source scale 1:100,000

#### **Drainage divides**

U.S. Census Bureau, TIGER/Line® files, 1995, source scale 1:100,000

#### **Gage stations**

U.S. Environmental Protection Agency, 1992. USGS surface water gaging stations, with 7-Q-10 low and monthly stream flow numbers. Obtained from Linda Lambert, Indiana Dept. of Natural Resources

#### **Floodplain delineation**

Federal Emergency Management Agency, National Flood Insurance Program. Data for Porter county not available.

#### **NWI Wetlands**

[US Fish and Wildlife Service, Division of Nature Conservation, National Wetlands Inventory. Source scale 1:24,000. Metadata](#)

## 1. CONTINUED

### ***Environment***

**Forest density**

U.S. Department of Agriculture, 1993. Obtained from Linda Lambert, Indiana Dept. of Natural Resources  
Natural Resources

**EPA weather stations**

**Surface water intake**

Lance Mabry, Indiana Dept. Environmental Management, 1996 Water-Use Data

**Groundwater intake**

Lance Mabry, Indiana Dept. Environmental Management, 1996 Water-Use Data

**Water quality monitoring sites**

U.S. Environmental Protection Agency, 1970-94. EPA Water Quality and Monitoring Stations. Obtained from Linda Lambert, Indiana Dept. of Natural Resources

**Landfills**

U.S. Geological Survey, 1987. Landfills as shown in 1986 National Water Summary Act. Obtained from Linda Lambert, Indiana Dept. of Natural Resources

**Waste treatment facilities**

HAZUS, 1997, Federal Emergency Management Agency and National Institute of Building Sciences

**Superfund sites**

U.S. Environmental Protection Agency, 1993. EPA Superfund National Priority Sites. Obtained from Linda Lambert, Indiana Dept. of Natural Resources

**E.Coli monitoring points**

Dataset generated from GPS locations obtained by *E.Coli* Task Force.

**Bacterial monitoring points**

U.S. Environmental Protection Agency, 1970-94. EPA Bacterial Monitoring Stations. Obtained from Linda Lambert, Indiana Dept. of Natural Resources

**Fish tissue sampling sites**

Roger Koelpin, Indiana Dept. of Environmental Management

**Sediment sampling sites**

Roger Koelpin, Indiana Dept. of Environmental Management

**Water invertebrates sampling sites**

Roger Koelpin, Indiana Dept. of Environmental Management

**NPDES pipeline**

Roger Koelpin, Indiana Dept. of Environmental Management

**NPDES facility**

Roger Koelpin, Indiana Dept. of Environmental Management

**Leaking underground storage tank**

Lance Mabry, Indiana Dept. of Environmental Management

**Underground storage tank**

Lance Mabry, Indiana Dept. of Environmental Management

**Toxic release inventory**

Lance Mabry, Indiana Dept. of Environmental Management

**Spills**

Lance Mabry, Indiana Dept. of Environmental Management

**Solid waste facility**

Lance Mabry, Indiana Dept. of Environmental Management

**RCRA facility**

Dataset created 09/97. Obtained from Roger Koelpin, Indiana Dept. of Environmental Management

**Boundaries of facilities monitoring groundwater**

Dataset created 09/97. Obtained from Roger Koelpin, Indiana Dept. of Environmental Management

**Units monitoring groundwater**

Dataset created 09/97. Obtained from Roger Koelpin, Indiana Dept. of Environmental Management

**Groundwater monitoring wells at facilities**

Dataset created 09/97. Obtained from Roger Koelpin, Indiana Dept. of Environmental Management

**Permit compliance system**

Lance Mabry, Indiana Dept. of Environmental Management

**Salmonid rivers**

Indiana Dept. of Natural Resources, Division of Fish and Wildlife, 1992. Known salmonid streams as defined and revealed by the Division of Fish and Wildlife. Obtained from Linda Lambert, Indiana Dept. of Natural Resources

**Fill material**

Dataset indicates the thickness (in feet), dates the fill was emplaced and fill type. Source: Kim Greeman, U.S. Geological Survey